

Attorney Docket No.: 07319-067004

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Canceled)
2. (Previously Presented) A lighting system, comprising:
a light source, which forms light;
an optical train, which directs said light along an optical path which includes both in focus and out of focus locations;
a first color changing element, allowing a color of the light to be changed at a first in focus location along said optical path; and
a second color changing element, allowing a color of the light to be changed at a first out of focus location along said optical path.
3. (Previously Presented) A system as in claim 2, wherein one of said color changing element as is a rotating RGB color wheel, which rotates in synchronism with a desired light.
4. (Previously Presented) The system as in claim 2, wherein one of said color changing element as is a color cross fader.

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5. (Previously Presented) The system as in claim 2, further comprising another color element, which includes discrete color filters.

6. (Previously Presented) The system as in claim 3, wherein each of said first color changing element and said second color changing element includes clear portions which can be selected to allow light to pass without color is being changed.

7. (Currently amended) ~~[[The]]~~ A lighting system as in claim 1, comprising:

a light source, which forms light;

an optical train, which directs said light along an optical path which includes both in focus and out of focus locations;

a first color changing element, allowing a color of the light to be changed at a first in focus location along said optical path;

a second color changing element, allowing a color of the light to be changed at a first out of focus location along said optical path;

wherein one of said color changing elements is an element with discrete color filters.

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8. (Previously Presented) The system as in claim 2, wherein each of said first and second color changing elements each include controllable motors therein, and further comprising a motor control bus connected to each of said first and second controllable motors.

9. (Previously Presented) The system as in claim 8, further comprising a controller, enabling control of each of said first and second color changing element over said motor control bus.

10. (Previously Presented) The device as in claim 9, wherein said controller communicates with said motors, using a command format which includes a command, in a first time slot, followed by data associated with said command, in at least one time slot following said first time slot, and having a specified timing relationship with said first time slot.

11. (Previously Presented) The device as in claim 8, wherein said motor control bus controls said first and second controllable motors using a time division multiplexed communication in which a function is associated with information associated with the function, at a time related to a time of the function.

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12. (Previously Presented) A lighting system, comprising:
a light source and optical system which forms light, and
directs said light along an optical path;

a first light modifying device, including a first motor
therein, which is operable based on a position of said motor to
change an aspect of said light;

a second light modifying device, separate from said first
light modifying device, and including a second motor therein,
which is operable based on a position of said second motor, to
change a different aspect of said light than said first aspect;
and

a motor control bus, connected to said first and second
motors, and communicating information associated with said first
and second motors, where a significance of said information
being dependent on a time slot on said motor control bus.

13. (Previously Presented) A system as in claim 12,
further comprising a processor which communicates over said
motor control bus with said first and second motors.

14. (Previously Presented) A system as in claim 13,
wherein said processor communicates by a format having a

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function in a specified form followed by data associated with the command, in specified time slots.

15. (Previously Presented) A system as in claim 13, wherein said processor communicates commands to said first and second motors.

16. (Previously Presented) A system as in claim 15, wherein said processor also receives data from said first and second motors.

17. (Previously Presented) A system as in claim 12, wherein said first light modifying device is a color changer, and said second light modifying device is a controllable optical element.

18. (Previously Presented) A system as in claim 17, wherein said controllable optical element is an optical zoom part.

19. (Previously Presented) A system as in claim 12, wherein said first light modifying device is a color changer, and said second light modifying device is a pan and tilt mechanism for the direction of light projection.

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20. (Previously Presented) A system as in claim 12, wherein said motor control bus communicates addressed information which is addressed to one of the items on said bus, and also includes a function command associated with said address.

21. (Previously Presented) A system as in claim 20, wherein said function command includes data associated with the command.

22. (Previously Presented) A system as in claim 20, wherein said command is a command to move the motor, and said data represents a position to which the motor should be moved.

23. (Previously Presented) A system as in claim 22, wherein said data further represents a time of motor movement.

24. (Previously Presented) A system as in claim 22, wherein said data further represents a time range during which the motor should be moved.

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25. (Previously Presented) A system as in claim 22, wherein said data further represents a profile of movement of motor operation.

26. (Previously Presented) A system as in claim 13, wherein one of said commands allows the processor to directly control one of said first and second motors.

27. (Previously Presented) A system as in claim 12, wherein said optical system includes a digital light shaping device which allows digitally controlling shapes of light which pass along the optical path.

28. (Previously presented) A method, comprising:
forming a beam of light;
directing said beam of light along an optical path;
first modifying said beam of light using a motor controlled device to make a first modification to said beam of light;
second modifying said beam of light using a second motor controlled device to make a second modification to said beam of light that is different than said first modification; and
controlling said first modifying and said second modifying over a motor control bus, in a format that allows sending a first part indicative of a function, and a second part

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indicative of data associated with said function, where said second part has a specified time slot relationship with said first part.

29. (Previously presented) A method as in claim 28, further comprising using a common controller to communicate over said motor control bus and to control said first modifying and said second modifying.

30. (Previously presented) A method as in claim 28, wherein said first modifying comprises changing a color of the light.

31. (Previously presented) A method as in claim 28, wherein said first modifying comprises changing an optical characteristic of the light.

32. (Previously presented) A method as in claim 31, wherein said changing an optical characteristic comprises changing a characteristic of an optical zoom.

33. (Previously presented) A method as in claim 28, wherein said first modifying comprises changing a position of projection of the light.

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34. (Previously presented) A method as in claim 33, wherein said changing positioning comprises controlling pan and tilt motors.

35. (Previously presented) A method as in claim 30, wherein said second modifying comprises changing a characteristic of an optical function of the light.

36. (Previously presented) A method as in claim 30, wherein said second modifying comprises changing the position of projection of the light.

37. (Previously presented) A method as in claim 28, wherein said controlling comprises sending a function, and sending data associated with the function.

38. (Previously presented) A method as in claim 37, wherein said function comprises a control to move a motor within one of the motor controlled devices, and said data comprises a position to which the motor should be moved.

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39. (Previously presented) A method as in claim 38, wherein said controlling further comprises sending data representing a time profile of the motor operation.

40. (Previously presented) A method as in claim 28 further comprising, along said optical path, digitally controlling a shape of the light.

41-42. (Canceled)

43. (Currently amended) A lighting system as in claim 41, comprising:

means for forming light along an optical path;

a first light modifying means for controlling a first aspect of said light, said first light modifying means including a first motor means for moving a position based on an applied command;

a second light modifying means for controlling a second aspect of said light, said second light modifying means including a second motor means for moving a position based on an applied command;

a motor control bus means for communicating said applied commands to both of said first and second light modifying means;

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wherein said motor control bus means is also for operating in a time division multiplexed format.

44. (Previously Presented) A system as in claim 43, wherein said time division multiplexed format is one where a command defines a time period associated with the command, during which time period data associated with the command is provided.

45. (Currently amended) A system as in claim ~~[[41]]~~43, further comprising a third light modifying means, for controlling a third aspect of said light, also connected to said motor control bus.

46. (Currently amended) A system as in claim ~~[[41]]~~43, wherein one of said light modifying means is an electrically controllable color changer.

47. (Currently amended) A system as in claim ~~[[41]]~~43, wherein one of said light modifying means is an electronically controllable optical characteristic mechanism.

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48. (Currently amended) A system as in claim ~~[[41]]~~43, wherein one of said light modifying means includes means for controlling a location of an output beam.

49. (Currently amended) A system as in claim ~~[[41]]~~43, further comprising means, along said optical path, for digitally controlling a shape of light which passes.